

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A multi-stack optical data storage medium for recording using a focused radiation beam having a wavelength  $\lambda$  and entering through an entrance face of the medium during recording, the multi-stack optical data storage medium

5 comprising:

a first substrate having, on a side thereof:

a first  $L_0$  guide groove formed therein, and

a first recording stack  $L_0$  comprising a recordable type  $L_0$  recording layer, the  $L_0$  recording layer having a thickness  $d_{L0G}$  in  
10 the groove and a thickness  $d_{L0L}$  adjacent the groove, and a first reflective layer present between the  $L_0$  recording layer and the first substrate;

a second substrate having, on a side thereof:

a second  $L_1$  guide groove formed therein, and

a second recording stack  $L_1$  comprising a recordable type  
15  $L_1$  recording layer, the  $L_1$  recording layer having a thickness  $d_{L1G}$  in the groove and a thickness  $d_{L1L}$  adjacent the groove, said second recording stack being present at a position closer to the entrance face than the  $L_0$  recording stack; and

20 a transparent spacer layer sandwiched between the  
recording stacks, said transparent spacer layer having a thickness  
substantially larger than the depth of focus of the focused  
radiation beam,  
\_\_\_\_\_ ~~characterized in that~~ wherein the depth of the first  $L_0$   
25 guide groove is smaller than  $0.15\lambda$ , the recordable type  $L_0$  and  $L_1$   
recording layers comprise an organic dye, and the thickness  $d_{L_0L}$  of  
the  $L_0$  recording layer adjacent the groove is substantially equal  
to or larger than the thickness  $d_{L_1G}$  of the  $L_1$  recording layer in  
the groove,  
30 \_\_\_\_\_ and wherein a reflectivity level of the first recording  
stack  $L_0$  is more than 50%, and a modulation of recorded marks in  
the  $L_0$  recording layer is more than 60%.

2. (Previously Presented) The multi-stack optical data storage  
medium as claimed in claim 1, wherein the thickness  $d_{L_0G}$  of the  $L_0$   
recording layer in the groove is substantially equal to or larger  
than twice the thickness  $2d_{L_1L}$  of the  $L_1$  recording layer adjacent  
5 the groove.

3. (Cancelled).

4. (Previously Presented) The multi-stack optical data storage medium according to claim 1, wherein the thickness  $d_{L1G}$  of the  $L_1$  recording layer in the groove is larger than the thickness  $d_{L1L}$  of the  $L_1$  recording layer adjacent to the groove.

5. (Previously Presented) The multi-stack optical data storage medium as claimed in claim 4, wherein a dielectric layer is present at a side of the  $L_0$  recording layer opposite from the side where the first reflective layer is present.

6. (Previously Presented) The multi-stack optical data storage medium as claimed in claim 5, wherein the dielectric layer has a thickness in the range of 5 nm - 120 nm.

7. (Previously Presented) The multi-stack optical data storage medium as claimed in claim 4, wherein a second reflective layer comprising a metal is present at a side of the  $L_0$  recording layer opposite from the side where the first reflective layer is present.

8. (Previously Presented) The multi-stack optical data storage medium as claimed in claim 7, wherein the second reflective layer has a thickness in the range of 5 nm -15 nm.

9. (Previously Presented) The multi-stack optical data storage medium as claimed in claim 7, wherein the second reflective layer mainly comprises a metal selected from the group of Ag, Au and Cu.

10. (Cancelled).